

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/18059

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01S 15/02, 15/06, 15/32
US CL : 367/99, 101, 131

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 367/87, 99, 100, 101, 131

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
n/a

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPAT, PG-Pubs, Derwent, Japio, EPO, IEEE, Inspec

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | US 5,949,739 A (REESE) 07 September 1999 (07.09.1999), see entire document | 1-30 |
| A | US 5,889,490 A (WACHTER et al) 30 March 1999 (30.03.1999), see entire document | 1-30 |
| A | US 4,054,862 A (BACKMAN, Jr.) 18 October 1977 (18.10.1977), see entire document | 1-30 |
| A | US 5,481,504 A (ROSENBACH et al) 02 January 1996, (02.01.1996), see entire document | 1-30 |

Further documents are listed in the continuation of Box C.

See patent family annex.

| | | |
|---|-----|--|
| * Special categories of cited documents: | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
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Date of the actual completion of the international search

23 June 2005 (23.06.2005)

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